

Claims

What is claimed is:

- 1 1. A method for providing a library that is adapted to be instantiated into a runtime  
2 object, the method comprising:  
3 providing a template that corresponds to the structure of the runtime object with  
4 element placeholders for elements and with attribute placeholders for attributes;  
5 providing classes that form the library, wherein the classes correspond to the elements  
6 and the classes have replacement instructions for the placeholders, with the replacement  
7 instructions activated upon instantiating into the runtime object.
- 1 2. The method of claim 1 wherein the template includes element placeholders having  
2 start portions and end portions differentiated by tag types.
- 1 3. The method of claim 2 wherein the template includes element placeholders having  
2 element identification components belonging to the start portions and the end portions.
- 1 4. The method of claim 2 wherein the element placeholders include element  
2 placeholders for a root element and for a branch element, with the start portions and the end  
3 portions of the branch element placed between the start portions and the end portions of the  
4 root element.
- 1 5. The method of claim 4 wherein the template includes the attribute placeholders  
2 placed between the start portions and the end portions of the element placeholders.
- 1 6. The method of claim 5 wherein the template includes code portions in the language of  
2 the runtime object placed between the start portions and the end portions of the element  
3 placeholders.

1     7.    The method of claim 1 wherein, in providing the template, single placeholders that  
2     represent a plurality of elements include a plurality indicator for indicating that the single  
3     placeholders represent a plurality of elements.

1     8.    The method of claim 1 wherein, in providing classes, the attribute placeholder  
2     changes a form of tags from tags of a first type into tags of a second type.

1     9.    The method of claim 1 wherein providing classes comprises using XML-techniques.

1     10.   The method of claim 1 wherein providing classes comprises organizing the classes in  
2     an abstract syntax tree (AST).

1     11.   The method of claim 1 wherein the template and classes are provided such that the  
2     library is adapted to be instantiated into a runtime object selected from the group consisting  
3     of application class file, application project file, common registry, machine specific  
4     registry, business component, and website layout.

1     12.   The method of claim 1 wherein the template and the classes are provided such that  
2     the library is adapted to be instantiated into a runtime object in a language selected from the  
3     group consisting of VBA, HTML, C++, C, Java, JavaScript, XML, and WML.

1     13.   The method of claim 1, wherein each element has associated attributes, further  
2     comprising:

3         identifying data for the attributes associated with each of the elements; and

4         instantiating the classes by activating the replacement instructions to replace the  
5     attribute placeholders with the data.

1 14. An article of manufacture comprising a computer-usable medium storing computer-  
2 readable program code for causing a processor to perform operations comprising:

3 providing a runtime object having elements and attributes, with each element having  
4 associated ones of the attributes;

5 pre-assembling the runtime object using classes in a library, wherein the classes  
6 correspond to the elements, the classes include replacement instructions for attribute  
7 placeholders, and the classes are based on a template that corresponds to a structure of the  
8 runtime object, with the template including element placeholders for the elements and  
9 attribute placeholders for the attributes;

10 identifying data for the attributes associated with each of the elements; and

11 instantiating the classes by activating the replacement instructions to replace the  
12 attribute placeholders with the data.

1 15. The article of claim 14 wherein the template includes element placeholders having  
2 start portions and end portions and the attribute placeholders are placed between the start  
3 portions and the end portions of the element placeholders.

1 16. The article of claim 15 wherein the template includes code portions in the language of  
2 the runtime object placed between the start portions and the end portions of the element  
3 placeholders.

1 17. The article of claim 14 wherein the library is adapted to be instantiated into a runtime  
2 object in a language selected from the group consisting of VBA, HTML, C++, C, Java,  
3 JavaScript, XML, and WML.

1 18. A computer program stored on a computer-readable medium and comprising  
2 processor instructions for providing a library adapted to be instantiated into a runtime  
3 object, the processor instructions comprising:  
4 first instructions for providing a template that corresponds to a structure of the runtime  
5 object with element placeholders for elements and with attribute placeholders for attributes;  
6 and  
7 second instructions for providing classes that form the library, wherein the classes  
8 correspond to the elements and the classes have replacement instructions for the  
9 placeholders that are activated upon instantiating into the runtime object.

1 19. The computer program of claim 18 wherein the the library is adapted to be  
2 instantiated into a runtime object selected from the group consisting of application class  
3 file, application project file, common registry, machine specific registry, business  
4 component, and website layout.

1     20.   A computer system for providing a library adapted to be instantiated into a runtime  
2     object, the computer system comprising:

3             means for providing a template that corresponds to a structure of the runtime object  
4     with element placeholders for elements and with attribute placeholders for attributes; and

5             means for providing classes that form the library, wherein the classes correspond to  
6     the elements and the classes have replacement instructions for the placeholders that are  
7     activated upon instantiating into the runtime object.